SRFAC 2007 Planting Sites for Alternative Materials

Hattaway’s Lease, C287

R292, washed Shell, eroding shoreline
Shoreline along R292 (see map), >100 m useable shoreline (high erosion)
E. Hattaway’s Lease (C287), shoreline over 46 m, ICW behind Lee in background
On E. Hattaway’s Lease C287. Near ICW, two signs with arrows left and right above the plantings.

33 bags (11 x 3) of whelk shell, covered 5 m², rebar end of each row, reefs 2 m x 2.5 m

5 m² quadrat, width 2.5 m, Height, 2 m

Middle Reef
79.32.702 W
33.02.311 N
We will be using whelk shell in bags and loose (see slides 4 & 5) at C287 (see slides 1 & 2) and the other above circled five materials, SC, fossil and Gulf oyster shell and limestone and crushed, clean concrete (#4) at R292 (a Recreational Shellfish Ground, slide 2) closed to harvesting by DHEC and currently subject to significant erosion (see slides 1 & 2)
Looking from Block A to D. Each is 5 m², 6 m between blocks; 3 m between ‘footprints’ within a block; pre-planting
Block A, Rep. 1, Footprint 4. SC shell, 5 m² (used 25-6.5 gal buckets of shell)
Block C, Rep. 3, Footprint 1. SC shell, 5 m² (used 25-6.5 gal buckets of shell)
One of 4 pairs of signs for each of the four ‘blocks’ (total of 20 footprints)
Looking from Block C to D. Each reef footprint is 5 m², 6 m between the four blocks; 3 m between each reef ‘footprints’ within a block. Five depth poles/reef at corners and center of reef
Loading Gulf shell into 6.5 gallon buckets for transport to site (84 total)
Loading fossil shell into DNR dump truck for transport to field site on barge
Loading recycled concrete into DNR dump trailer for transport to field site on barge.
Loading limestone into DNR dump trailer for transport to field site on barge
Gulf oyster shell loading at Buck Hall
Loading fossil shell at Buck Hall
Loading recycled concrete at Buck Hall
Barge all loaded at Buck Hall and Leaving for Harbor River
Loaded barge anchored off Harbor River, R-292
moving material to 20 footprints in July, 2007 (gulf oyster shell and limestone on left and right below)
Raking out fossil oyster shell, R-292, setting up erosion poles/ GPS ‘Trimbling’ along the shoreline
View of plots along R-292, signs in Harbor River, R-292, 4 blocks, A-D, empty barge after deployment, estimate 20 tons deployed overall